IT ***Polyoxyalkylenes*** , biological studies
(non-gelatin substitutes for oral delivery capsules)
IT ***Gels***
(***thermoreversible*** ; non-gelatin substitutes for oral delivery capsules)

(3)

L71 ANSWER 4 OF 68 HCA COPYRIGHT 2001 ACS
AN 133:310294 HCA
TI Thermally reversible hydrophilic-hydrophobic copolymers and production method thereof
IN Ito, Shoji
PA Agency for Industrial Science and Technology, Japan
SO Jpn. Tokkyo Koho, 10 pp.
CODEN: JTXXFF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 3101714	B1	20001023	JP 1999-130577	19990511
	JP 2000319304	A2	20001121		
	JP 2001049074	A2	20010220	JP 2000-183492	19990511
PRAI	JP 1999-130577	A3	19990511		

AB Title copolymers comprise (A) structure units derived from at least one monomer selected from N-n-propylacrylamide, N-isopropylamide, and N,N-diethylacrylamide and (B) 0.001-10 mol% structure units derived from reactive surfactants represented by R-p-C6H4-OCH2CH(CH2OCH2CH:CH2)(OX)nOSO3M, CH2:CHCH2OOCCH(CH2COOR)SO3M, or CH2:C(R')COO(XO)nSO3M and having mass av. mol. wt. 1,000,000-10,000,000, where R = higher alkyl, R' = H or Me, X = alkylene, M = alkali metal or ammonium, and n = integer of 2-20. Thus, 9.08 g N-isopropylacrylamide and 0.78 g Adeka Reasoap SE 10N (reactive surfactant) were ***copolymd*** using 0.061 g ammonium persulfate at 60.degree. for 2 to give a polymer with mass av. mol. wt. 1,640,000 and reactive surfactant content 1.11%. A 5% aq. soln. of the resulting polymer showed syneresis rate 86% after kept at 50.degree. for 2.5 h.
IT ***Polyoxyalkylenes*** , preparation
(acrylic, graft; prepn. of thermally reversible hydrophilic-hydrophobic copolymers useful as syneresis agents)
IT ***Gelation***
(***thermally*** ***reversible*** ; prepn. of ***thermally*** ***reversible*** hydrophilic-hydrophobic copolymers useful as syneresis agents)

L71 ANSWER 5 OF 68 HCA COPYRIGHT 2001 ACS
AN 133:89859 HCA
TI Controlled preparation of nanometer-sized supramolecular cylinders of poly(ethylene oxide) embedded in methacrylate matrices
AU Beginn, Uwe; Fischer, Elmar; Pieper, Thomas; Mellinger, Felix; Kimmich, Rainer; Moller, Martin
CS Laboratory of Organic Chemistry III, Macromolecular Chemistry and Materials, University of Ulm, Ulm, D-89069, Germany
SO J. Polym. Sci., Part A: Polym. Chem. (2000), 38(11), 2041-2056
CODEN: JPACEC; ISSN: 0887-624X
PB John Wiley & Sons, Inc.
DT Journal
LA English
AB Semi-interpenetrating networks of poly(ethylene oxide) (PEO) and highly ***crosslinked*** poly(methacrylate)s were generated